

2-1. Driving procedures

Driving the vehicle

The following procedures should be observed to ensure safe driving.

■ Starting the hybrid system (→P. 148)

■ Driving

STEP 1 With the brake pedal depressed, shift the shift lever to "D".
(→P. 152)

STEP 2 Release the parking brake.
(→P. 157)

STEP 3 Gradually release the brake pedal and gently push the accelerator pedal to accelerate the vehicle.

■ Stopping

STEP 1 With the shift lever in "D", push the brake pedal.

STEP 2 If necessary, set the parking brake.

When the vehicle is stopped for an extended period of time, shift the shift lever to "P".
(→P. 152)

■ Parking the vehicle

STEP 1 With the shift lever in "D", push the brake pedal.

STEP 2 Set the parking brake.
(→P. 157)

STEP 3 Shift the shift lever to "P".
(→P. 152)

STEP 4 Stop the hybrid system.

STEP 5 Lock the door, making sure that you have the electronic key on your person.

Starting on a steep incline

STEP 1 Firmly set the parking brake and shift the shift lever to "D".

STEP 2 Gently depress the accelerator pedal.

STEP 3 Release the parking brake.

■ Driving in the rain

- Drive carefully when it is raining, because visibility will be reduced, the windows may become fogged-up, and the road will be slippery.
- Drive carefully when it starts to rain, because the road surface will be especially slippery.
- Refrain from high speeds when driving on an expressway in the rain, because there may be a layer of water between the tires and the road surface, preventing the steering and brakes from operating properly.

■ Breaking in your new Lexus

To extend the life of the vehicle, the following precautions are recommended to observe:

- For the first 186 miles (300 km):
Avoid sudden stops.
- For the first 621 miles (1000 km):
 - Do not drive at extremely high speeds.
 - Avoid sudden acceleration.
 - Do not drive continuously in the low range in the "S" position.
 - Do not drive at a constant speed for extended periods.

■ Drum-in-disc type parking brake system

Your vehicle has a drum-in-disc type parking brake system.

This type of brake system needs bedding-down of the brake shoes periodically or whenever the parking brake shoes and/or drums are replaced.

Have your Lexus dealer perform the bedding-down.

■ Operating your vehicle in a foreign country

Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel. (→P. 590)

■ When starting on an incline

The hill-start assist control may operate. (→P. 213)

2-1. Driving procedures

■ Overheating

Your vehicle may overheat under the following extreme driving conditions:

- When driving on a long uphill road in hot weather
- Suddenly decelerating or stopping the vehicle immediately after high-speed driving

■ For efficient use

- Put the shift lever into "D" when driving
In the "N" position, the gasoline engine operates but electricity cannot be generated. The hybrid battery (traction battery) will be discharged requiring unnecessary engine power to recharge.
- Drive your vehicle smoothly
Avoid abrupt acceleration and deceleration. Gradual acceleration and deceleration will make more effective use of the traction motor without having to use gasoline engine power.
- Avoid repeated acceleration
Repeated acceleration consumes hybrid battery (traction battery) power, resulting in poor acceleration. Battery power can be restored by driving with the accelerator pedal slightly released.
- Put the shift lever into "P" when parking
In the "N" position, the hybrid battery (traction battery) does not recharge. Leaving the shift lever in the "N" position for an extended period of the time may discharge the hybrid battery. The vehicle cannot run if the hybrid battery is discharged.

CAUTION

■ When starting the vehicle

Always keep your foot on the brake pedal while stopped with the hybrid system operating. This prevents the vehicle from creeping.

⚠ CAUTION**■ When driving the vehicle**

- Do not drive if you are unfamiliar with the location of the brake and accelerator pedals to avoid depressing the wrong pedal.
 - Accidentally depressing the accelerator pedal instead of the brake pedal will result in sudden acceleration that may lead to an accident that could result in death or serious injury.
 - When backing up, you may twist your body around, leading to a difficulty in operating the pedals. Make sure to operate the pedals properly.
 - Make sure to keep a correct driving posture even when moving the vehicle only slightly, allowing you to depress the brake and accelerator pedals properly.
 - Depress the brake pedal using your right foot. Depressing the brake pedal using your left foot may delay response in an emergency, resulting in an accident.
- Do not drive the vehicle over or stop the vehicle near flammable materials. The exhaust system and exhaust gases can be extremely hot. This may cause a fire if there is any flammable material nearby.
- Do not let the vehicle roll backwards while the shift lever is in a driving position, or roll forward while the shift lever is in "R".
Doing so may cause the hybrid system not to operate or lead to poor brake and steering performance, resulting in an accident or damage to the vehicle.
- If the smell of exhaust is noticed inside the vehicle, open the windows and check that the trunk is closed.
Large amounts of exhaust in the vehicle can cause driver drowsiness and an accident, resulting in death or a serious health hazard. Have the vehicle inspected by your Lexus dealer immediately.
- Do not under any circumstances shift the shift lever to "P", "R" or "N" while the vehicle is moving.
Doing so can cause significant damage to the transmission and may result in a loss of vehicle control.

2-1. Driving procedures

CAUTION

■ When driving the vehicle

- Do not shift the shift lever to “N” while the vehicle is moving.
Doing so may cause the engine brake not to operate properly and lead to an accident.
- Do not turn the hybrid system off while driving.
The power steering and brake actuator will not operate properly if the hybrid system is off.
- Use engine braking (downshift) to maintain a safe speed when driving down a steep hill.
Using the brakes continuously may cause the brakes to overheat and lose effectiveness. (→P. 154)
- When stopped on an inclined surface, use the brake pedal and parking brake to prevent the vehicle from rolling backward or forward and causing an accident.
- Be careful when driving on slippery surfaces, as the vehicle may spin or skid when downshifting, rapidly accelerating, braking or turning.
- Do not adjust the position of the steering wheel, the seat, or the inside or outside rear view mirrors while driving.
Doing so may result in a loss of vehicle control that can cause accidents that may result in death or serious injury.
- Always check that all passengers' arms, heads or other parts of their bodies are not outside the vehicle, as this may result in death or serious injury.
- Do not drive in excess of the speed limit. Even if the legal speed limit permits it, do not drive over 85 mph (140 km/h) unless your vehicle has high-speed capability tires. Driving over 85 mph (140 km/h) may result in tire failure, loss of control and possible injury. Be sure to consult a tire dealer to determine whether the tires on your vehicle are high-speed capability tires or not before driving at such speeds.
- The driver should pay attention to pedestrians when the vehicle is powered only by the electric motor (traction motor). Because there is no engine sounds, the pedestrians may misjudge the vehicle's movement.

⚠ CAUTION**■ When driving on slippery road surfaces**

- Sudden braking, acceleration and steering may cause tire slippage and reduce your ability to control the vehicle, resulting in an accident.
- Sudden changes in engine speed, such as engine braking caused by up-shifting or down-shifting, may cause the vehicle to skid, resulting in an accident.
- After driving through a puddle, lightly depress the brake pedal to make sure that the brakes are functioning properly. Wet brake pads may prevent the brakes from functioning properly. If the brakes on only one side are wet and not functioning properly, steering control may be affected, resulting in an accident.

■ When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed. This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

■ When the vehicle is stopped

- Do not race the hybrid system.
If the vehicle is in any positions other than "P" or "N" the vehicle may accelerate suddenly and unexpectedly, and may cause an accident.
- Do not leave the vehicle with the hybrid system on for a long time.
If such a situation cannot be avoided, park the vehicle in an open space and check that exhaust fumes do not enter the vehicle interior.
- In order to prevent accidents due to the vehicle rolling away, always keep depressing the brake pedal while the "READY" indicator is on. Apply the parking brake as necessary.
- If the vehicle is stopped on an incline, in order to prevent accidents caused by the vehicle rolling forward or backward, always depress the brake pedal and securely apply the parking brake as needed.
- Avoid revving or racing the engine. Running the engine at high speed while the vehicle is stopped may cause the exhaust system to overheat, which could result in a fire if combustible material is nearby.

2-1. Driving procedures

CAUTION

■ When the vehicle is parked

- Do not leave glasses, cigarette lighters, spray cans, or soft drink cans in the vehicle when it is in the sun.
Failure to do so may result in the following:
 - Gas may leak from a cigarette lighter or spray can, and may lead to a fire.
 - The temperature inside the vehicle may cause the plastic lenses and plastic material of eye glasses to deform or crack.
 - Soft drink cans may fracture, causing the contents to spray over the interior of the vehicle, and may also cause a short circuit in the vehicle's electrical components.
- Always apply the parking brake, shift the shift lever to "P", stop the hybrid system and lock the vehicle.
Do not leave the vehicle unattended while the hybrid system is operating.
- Do not touch the exhaust pipe while the hybrid system is operating or immediately after turning the hybrid system off.
Doing so may cause burns.
- Do not leave the hybrid system operating in an area with snow build-up, or where it is snowing. If snowbanks build up around the vehicle while the hybrid system is operating, exhaust gases may collect and enter the vehicle. This may lead to death or a serious health hazard.

■ Exhaust gases

Exhaust gases include harmful carbon monoxide (CO) that is colorless and odorless. Inhaling exhaust gases may lead to death or a serious health hazard.

- If the vehicle is in a poorly ventilated area, stop the hybrid system. In a closed area, such as a garage, exhaust gases may collect and enter the vehicle. This may lead to death or a serious health hazard.
- The exhaust should be checked occasionally. If there is a hole or crack caused by corrosion, damage to a joint or abnormal exhaust noise, be sure to have the vehicle inspected and repaired by your Lexus dealer. Failure to do so may allow exhaust gases to enter the vehicle, resulting in death or a serious health hazard.

⚠ CAUTION**■ When taking a nap in the vehicle**

Always turn the hybrid system off. Otherwise, you may accidentally move the shift lever or depress the accelerator pedal, which could cause an accident or fire due to hybrid system overheating. Additionally, if the vehicle is parked in a poorly ventilated area, exhaust gases may collect and enter the vehicle, leading to death or a serious health hazard.

■ When braking the vehicle

- When the brakes are wet, drive more cautiously.

Braking distance increases when the brakes are wet, and may cause one side of the vehicle to brake differently than the other side. Also the parking brake may not securely hold the vehicle.

- If the brake actuator does not operate, do not follow other vehicles closely and avoid hills or sharp turns that require braking.

In this case, braking is still possible, but it will require more force on the pedal than usual. Braking distance may also increase.

- The brake system consists of 3 individual hydraulic systems: If one of the systems fails, the other will still operate. In this case, the brake pedal should be depressed more firmly than usual and braking distance becomes longer.

Do not drive your vehicle with only a single brake system. Have your brakes fixed immediately.

■ If the vehicle becomes stuck or bogged

Do not spin the wheels recklessly when any of the tires is up in the air, or stuck in sand or mud, etc. This may damage the drive system components or propel the vehicle forward (or in another direction) and cause an accident.

2-1. Driving procedures

NOTICE

■ While driving the vehicle

- Do not depress the accelerator and brake pedals at the same time during driving. If the brake pedal is depressed while driving with the accelerator pedal depressed, driving torque may be restrained.
- Do not use the accelerator pedal or depress accelerator and brake pedals together to hold the vehicle on a hill.

■ When parking the vehicle

Always put the shift lever in "P". Failure to do so may cause the vehicle to move or the vehicle may accelerate suddenly if the accelerator pedal is accidentally depressed.

■ Avoiding damage to vehicle parts

- Do not turn the steering wheel fully in either direction and hold it there for a long time.
Doing so may damage the power steering motor.
- When driving over bumps in the road, drive as slowly as possible to avoid damaging the wheels, underside of the vehicle, etc.

■ If you hear a squealing or scraping noise (brake pad wear limit indicators)

Have your Lexus dealer check and replace the brake pads as soon as possible. The rotor damage can result if the pads are not replaced when needed.

Front brake only: Moderate levels of the brake pad and disc wear allow enhanced front braking power. As a result, the discs may wear more quickly than conventional brake discs. Therefore, when replacing the brake pads, Lexus recommends that you also have the thickness of the discs measured.

It is dangerous to drive the vehicle when the wear limits of the brake pads and/or that of the brake discs are exceeded.

 NOTICE■ **If you get a flat tire while driving**

A flat or damaged tire may cause the following situations. Hold the steering wheel firmly and gradually press the brake pedal to slow down the vehicle.

- It may be difficult to control your vehicle.
- The vehicle will make abnormal sounds.
- The vehicle will behave abnormally.

Replace a flat tire with a new one. (→P. 564)

■ **When encountering flooded roads**

Do not drive on a road that has flooded after heavy rain etc. Doing so may cause the following serious damage to the vehicle.

- Engine stalling
- Short in electrical components
- Engine damage caused by water immersion

In the event that you drive on a flooded road and the vehicle is flooded, be sure to have your Lexus dealer check the following.

- Brake function
- Changes in quantity and quality of oil and fluid used for the engine, transmission, differentials, etc.
- Lubricant condition for the propeller shaft, bearings and suspension joints (where possible) and the function of all joints, bearings, etc.

2-1. Driving procedures

Power (ignition) switch

Performing the following operations when carrying the electronic key on your person starts the hybrid system or changes "POWER" switch modes.

■ Starting the hybrid system

STEP 1 Check that the parking brake is set.

STEP 2 Check that the shift lever is set in "P".

STEP 3 Sit in the driver's seat and firmly depress the brake pedal.

The "POWER" switch indicator turns green.



Press the "POWER" switch.

After a few seconds, the "READY" light will flash and come on with a beep sound.

The vehicle can move when the "READY" light is on, even if the engine is stopped.

The hybrid system can be started from any mode.

■ Changing “POWER” switch mode

Modes can be changed by pressing the “POWER” switch with the brake pedal released. (The mode changes each time the switch is pressed.)



1 OFF*

Emergency flashers can be used.

2 ACCESSORY mode

Some electrical components such as the audio system can be used.

The “POWER” switch indicator turns amber.

3 ON mode

All electrical components can be used.

The “POWER” switch indicator turns amber.

*: If the shift lever is in a position other than “P” when turning off the hybrid system, the “POWER” switch will be turned to ACCESSORY mode, not to OFF.

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When driving

2-1. Driving procedures

■ If the hybrid system does not start

The immobilizer system may not have been deactivated. (→P. 99)

■ When the steering lock cannot be released



The green indicator light on the "POWER" switch will flash and a message will be shown on the multi-information display. Press the "POWER" switch again while turning the steering wheel left and right.

■ When the "POWER" switch indicator flashes in amber

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

■ If the "READY" light does not come on

If the "READY" light does not come on when you press the "POWER" switch with the shift lever in "P" and the brake pedal pressed, contact your Lexus dealer immediately.

■ Auto power OFF function

If the vehicle is left in ACCESSORY or ON mode (the hybrid system is not operating) for more than an hour with the shift lever in P, the "POWER" switch will automatically turn off. However, this function cannot entirely prevent 12 volt battery discharge. Do not leave the vehicle with the "POWER" switch in ACCESSORY or ON mode for long periods of time when the hybrid system is not operating.

■ When the ambient temperature is low

Such as during winter driving conditions, it may take time until the "READY" light comes on.

■ Sounds and vibrations specific to a hybrid vehicle

→P. 27

■ When the hybrid system is malfunctioning

→P. 544

- **Electronic key battery depletion**
→P. 47
- **When the electronic key battery is discharged**
→P. 494
- **Conditions affecting operation**
→P. 45

CAUTION

■ **When starting the hybrid system**

Always start the hybrid system while sitting in the driver's seat. Do not press the accelerator pedal while starting the hybrid system under any circumstances. Doing so may cause an accident resulting in death or serious injury.

■ **Stopping the hybrid system in an emergency**

If you want to stop the hybrid system in an emergency while driving the vehicle, push and hold the "POWER" switch for more than 3 seconds. However, do not touch the "POWER" switch while driving except in an emergency. If the hybrid system stops while the vehicle is being driven, this could lead to an unexpected accident.

NOTICE

■ **To prevent 12 volt battery discharge**

Do not leave the "POWER" switch in ACCESSORY or ON mode for long periods without the hybrid system on.

■ **When starting the hybrid system**

- Do not race the hybrid system.
- If the hybrid system becomes difficult to start or stalls frequently, have the hybrid system checked immediately.

2-1. Driving procedures

Transmission

Select a shift position appropriate for the driving conditions.

■ Shifting the shift lever



← While the “POWER” switch is in ON mode, depress the brake pedal and move the shift lever.

■ Shift position uses

Shift position	Function
P	Parking the vehicle or starting the hybrid system
R	Reversing
N	Neutral
D	Normal driving ^{*1}
S	“S” mode driving ^{*2} (→P. 154)

^{*1}: To improve fuel consumption and reduce noises, set the shift lever in the “D” position for normal driving.

^{*2}: By selecting shift ranges using “S” mode, you can control engine braking forces.

■ Selecting a driving mode

The following patterns can be selected to suit current driving and operating conditions.



1 Power mode

For powerful acceleration and driving in mountainous regions.

2 Normal mode

3 Snow mode

For accelerating and driving on slippery road surfaces, such as on snow.

Press "SNOW" to return to normal mode.

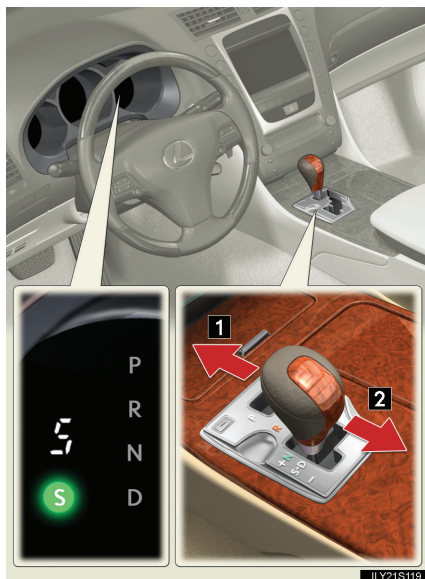
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When driving

2-1. Driving procedures

Changing shift ranges in “S” mode

Shift the shift lever to the “S” position and operate the shift lever.



- 1 Upshifting
- 2 Downshifting

The initial shift range in “S” mode is automatically set to “5”.

■ Shift ranges and their functions

- You can choose from 6 levels of engine braking force.
- A lower shift range will provide greater engine braking force than a higher shift range, and the engine revolutions will also increase.
- If you accelerate while in ranges “1” to “5”, the shift range may automatically range up in accordance with the vehicle’s speed.

■ Downshifting restrictions warning buzzer (in the “S” mode)

To help ensure safety and driving performance, downshifting operation may sometimes be restricted. In some circumstances, downshifting may not be possible even when the shift lever is operated. (The warning buzzer will sound twice.)

■ When driving with the cruise control system (or dynamic radar cruise control system)

The engine brake will not operate in the “S” mode, even when downshifting to “5” or “4”. (→P. 183)

■ Snow mode automatic deactivation

Snow mode is automatically deactivated if the “POWER” switch is turned to ACCESSORY or ON mode after driving in snow mode.

■ If the shift lever cannot be shifted from “P”

→P. 573

■ If the indicator does not come on even after shifting the shift lever to “S”

This may indicate a malfunction in the transmission. Have the vehicle inspected by your Lexus dealer immediately.

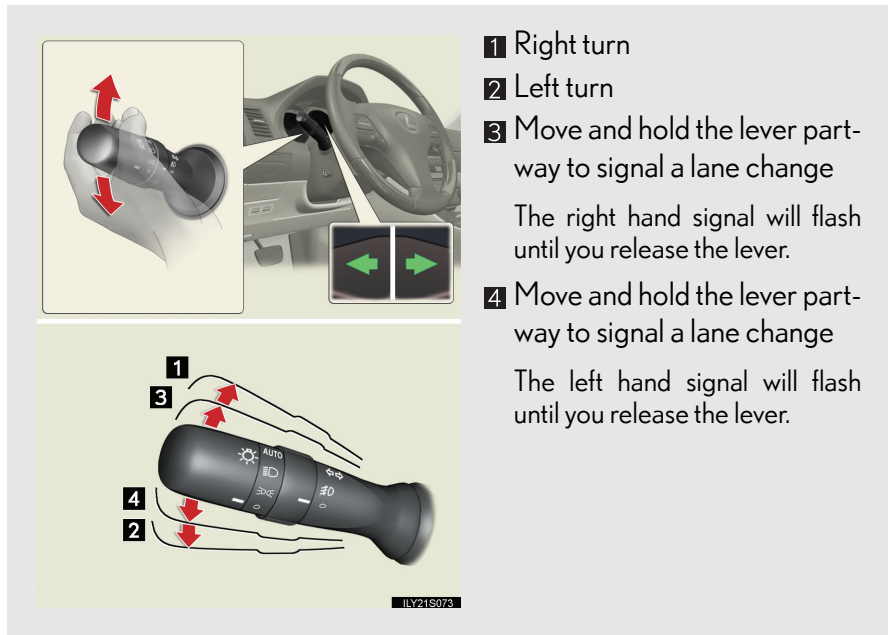
(In this situation, the vehicle will operate as if the shift lever is in “D”.)

■ When in heavy traffic

To avoid running the hybrid battery (traction battery) down, leave the shift lever in “D” or “S”.

2-1. Driving procedures

Turn signal lever



■ Turn signals can be operated when

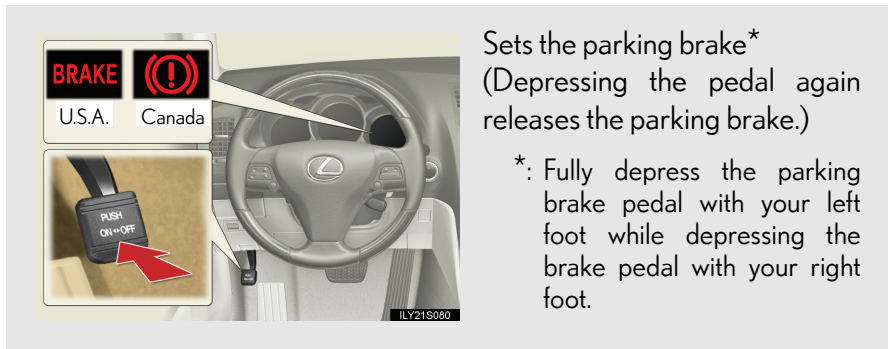
The "POWER" switch is in ON mode.

■ If the indicators flash faster than usual

Check that a light bulb in the front or rear turn signal lights has not burned out.

2-1. Driving procedures

Parking brake



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When driving

■ Usage in winter time

See "Winter driving tips" for parking brake usage in winter time. (→P. 232)

⚠ NOTICE

■ Before driving

Fully release the parking brake.

Driving the vehicle with the parking brake set will lead to brake components overheating, which may affect braking performance and increase brake wear.

2-1. Driving procedures

Horn

